PATENT COOPERATION TREATY

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MEDLEN & CARROLL

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To: CHRISTINE A. LEKUTIS MEDLEN & CARROLL, LLP 101 HOWARD STREET, SUITE 350 SAN FRANCISCO, CA 94105

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

	SEARCHING AUTHORITY, OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 07 FEB 2006
Applicant's or agent's file reference DHI-08872	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/36689	International filing date (day/month/year) 03 November 2004 (03.11.2004)
Applicant DIAGNOSTIC HYBRIDS, INC. AND HEALTH RESEARCH IN	IC.
1. The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No.), 34 chemin des Colombettes
For more detailed instructions, see the notes on the a	accompanying sheet.
	ch report will be established and that the declaration under ne International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) add	itional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has be request to forward the texts of both the protest and the texts of both the texts of both the texts of both the protest and the texts of both the protest and the texts of both the t	en transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.
	plicant will be notified as soon as a decision is made.
4. Reminders	
Bureau. If the applicant wishes to avoid or postpone publication,	te, the international application will be published by the International, a notice of withdrawal of the international application, or of the priority 90bis.1 and 90bis.3, respectively, before the completion of the technical
International Bureau. The International Bureau will send a coppreliminary examination report has been or is to be established before the expiration of 30 months from the priority date.	the written opinion of the International Searching Authority to the py of such comments to all designated Offices unless an international. These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the some Offices even later); otherwise, the applicant must, within into the national phase before those designated Offices.	t of some designated Offices, a demand for international preliminary e entry into the national phase until 30 months from the priority date (in 20 months from the priority date, perform the prescribed acts for entry
	s (or later) will apply even if no demand is filed within 19 months.
See the Annex to Form PCT/IB/301 and, for details about the Volume II, National Chapters and the WIPO Internet site.	applicable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Authorized office: Mary E. Moshet Ph.D. Telephone No. 571-272-1600

Facsimile No. (571) 273-3201
Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

DHI-08872		Form PCT/ISA/220 ere applicable, item 5 below.		
International application No. PCT/US04/36689	International filing date (day/month/year) 03 November 2004 (03.11.2004)	(Earliest) Priority Date (day/month/year) 03 November 2003 (03.11.2003)		
Applicant DIAGNOSTIC HYBRIDS, INC. AND HEALTH RESEARCH INC.				
This international search report consists of It is also accompanied 1. Basis of the Report a. With regard to the language, the international a translation of the of a translation function of a translation of a transla	sheets. by a copy of each prior art document cited international search was carried out on the bapplication in the language in which it was five international application into	in this report. asis of: led, which is the language		
6. With regard to the drawings, a. the figure of the drawings to be properties as suggested by the a as selected by this Ar	according to Rule 38.2(b), by this Authority the date of mailing of this international search ublished with the abstract is Figure No applicant. uthority, because the applicant failed to suggest the applicant failed to suggest the applicant failed to suggest the applicant.	gest a figure.		

Interr

PCT/US04/36689

	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
	This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
	1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely.			
	2.		Claims Nos.: 5,61,63,65 and 67 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: These claims are unsearchable because they require particular SEQ IDs, and no Sequence Listing was filed.			
	3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
	Box N	lo. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
			ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet			
	 [] 2. [] 3. [] 		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
	4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4 and 18-23			
	Remar					
			was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			
L			——————————————————————————————————————			

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

International application

PCT/US04/36689

A. CLASSIFICATION OF SUBJECT MATTER					
` '	IPC(8) : C12Q 1/70				
US CL: 435/5 According to International Patent Classification (IPC) or to both national classification and IPC					
	DS SEARCHED	itional classification and if C			
Minimum do U.S. : 43	ocumentation searched (classification system followed 35/5	by classification symbols)			
Documentati	on searched other than minimum documentation to the	e extent that such documents are included	in the fields searched		
	ita base consulted during the international search (nan continuation Sheet	ne of data base and, where practicable, sea	rch terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
X	THIEL et al. Mechanisms and enzymes involved in Journal of General Virology, 19 June 2003, Vol. 84,	<u> </u>	1, 2		
X	SNIJDER et al. Unique and Conserved Features of Coronavirus, an Early Split-off From the Coronaviru Biology. 20 August 2003, vol. 331, pages 991-1004,	Genome and Proteome of SARS- s Group 2 Lineage. Journal of Molecular	1, 2		
X	YOUNT et al. Reverse Genetics with a full-length is respiratory syndrome coronavirus. PNAS. 20 October 13000, see page 12997-8 and Figure 2B.		1-4		
A	KSIAZEK et al. A Novel Coronavirus Associated w New England Journal of Medicine. 10 April 2003. V page 1954.		18-23		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
	pecial categories of cited documents: defining the general state of the art which is not considered to be of relevance	"T" later document published after the inten- and not in conflict with the application to principle or theory underlying the inven-	out cited to understand the		
"B" earlier app	olication or patent published on or after the international filing date	"X" document of particular relevance; the cleonsidered novel or cannot be considered when the document is taken alone			
establish t specified)	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obviou				
	published prior to the international filing date but later than the	"&" document member of the same patent fa	emity		
Date of the actual completion of the international search Date of mailing of the international search report 7 FFR 2006					
	Name and mailing address of the ISA/US Authorized officer				
	l Stop PCT, Attn: ISA/US	The state of the s	1 kmm h		
Con P.O. Alex	Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Mary E. Mosher, Ph.D. Telephone No. 571-272-1600				
	(210 (<u> </u>			

Form PCT/ISA/210 (second sheet) (April 2005)

International PCT/US04/3000>

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group 1, claim(s) 1-4, 18-23, drawn to detecting replication of SARS virus using PCR to detect subgenomic RNA.

Group 2, claim(s) 6-17, drawn to detecting presence of virus using cultured cells.

Group 3, claim(s) 24-35, drawn to identifying test agent by detecting altered replication.

Group 4, claim(s) 36-39, drawn to antibody.

Group 5, claim(s) 40, 52-54, drawn to composition comprising cells and protease inhibitor.

Group 6, claim(s) 41-47, drawn to method of use of cells with protease inhibitor.

Group 7, claim(s) 48-51, drawn to detecting replication of a coronavirus.

Group 8, claim(s) 55, drawn to method of inhibiting coronavirus 229E.

Group 9, claim(s) 56-60, 62, 64, 66, drawn to kit comprising primers and instructions.

The inventions listed as Groups 1-8 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

PCT article 17 (3)(a) states that "The International Searching Authority shall establish the international search report on those parts of the international application which relate to the invention first mentioned in the claims (main invention) and, provided the required additional fees have been paid within the prescribed time limit, on those parts of the international application which relate to inventions in respect of which the said fees were paid." Pct Rule 13.2 states that "The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art."

For group 1, the invention first mentioned in the claims, the special technical feature is the detection of SARS subgenomic RNA using PCR, to detect replication of the virus.

Group 2 is drawn to a method of detecting virus, not necessarily detecting replication, and does not require the corresponding special technical feature, as evidenced by claims 8 and 9.

Group 3 is drawn to a screening assay for agents altering replication. It does not require the special technical feature of group I, as evidenced by claims 28 and 29, or provision of a sample for detection of virus or detection of virus as required in group 2.

Group 4 is unrelated to groups 1-3, being drawn to a product-by-process antibody that is indistinguishable from antibodies produced by a different process.

Group 5 does not relate to any of the special technical features of groups 1-4, being drawn to a composition of cells + protease inhibitor.

Form PCT/ISA/210 (extra sheet) (April 2005)

International applications to. 17
PCT/US04/36689

Group 6 is a method of use of the group 5 composition, which does not require the special technical features of groups 1-4. Group 7 does not require the special technical feature of group 1, because it does not require detection of SARS replication as evidenced by claim 51.

Group 8 is unrelated to groups 1-7, being drawn to a method of inhibiting a virus different from that of groups 1-4, and having no stated relationship to the products of group 5 or the methods of groups 6-7.

Group 9 is drawn to a kit comprising two coronavirus primers and instructions, but does not require the primers to detect SARS as required in group 1.

Continuation of B. FIELDS SEARCHED Item 3:

EAST USPAT, PGPUB, EPO, JPO, DERWENT; Dialog files 155, 5, 50, 357. Search terms: SARS, SCOV, HSCOV, ANTIVIRAL, SCREEN?, REPLICAT?, anti adj viral, REPLICAT?, INHIBIT?, VIRUS, SCREEN?, ASSAY, CORONA?, SUBGENOM?, DETECT?, DIAGNOS?, AMPLIF?, LEADER, HEK, HUH, MV1LU, PRIMARY, KIDNEY, 293, 293T, CELL, CELLS, PY=2003, PERSIST?, CPE, CYTOPATHIC, PERMISSIVE, RANGE, INFECT?, LINES, CULTURED, pcr, prhmk

'FATENT COOPERATION TREATY

INTERNA'	TIONAL SEARC	HING AUTHO	ORITY		· ·
To: CHRISTINE A. LEKUTIS MEDLEN & CARROLL, LLP 101 HOWARD STREET, SUITE 350			PCT		
SAN FRA	ANCISCO, CA 9	94105			CITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	07 FEB 2006
Applicant	's or agent's file i	reference		FOR FURTHER	ACTION See paragraph 2 below
DHI-0887	·				
Internatio	nal application No	0.	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/USO Internatio		ication (IPC) o	03 November 2004 (03. r both national classificat		03 November 2003 (03.11.2003)
· · · · · · · · · · · · · · · · · · ·	12Q 1/70 and US	CL: 435/5			
Applicant					
DIAGNO	STIC HYBRIDS,	INC. AND HI	EALTH RESEARCH INC	2.	
1. This	opinion contains i	ndications rela	ting to the following item	s:	
\boxtimes	Box No. I	Basis of the	opinion		•
	Box No. II	Priority			
\boxtimes	Box No. III	Non-establis	hment of opinion with re	gard to novelty, inve	ntive step and industrial applicability
\boxtimes	Box No. IV	Lack of unit	y of invention		
\boxtimes	Box No. V		atement under Rule 43bis; citations and explanatio	- · · · · ·	o novelty, inventive step or industrial
	Box No. VI	Certain docu	ıments cited		
\boxtimes	Box No. VII	Certain defe	cts in the international ap	plication	
\boxtimes	Box No. VIII	Certain obse	rvations on the internatio	nal application	
2. FUR	THER ACTIO)N			
Intern Autho	ational Prelimina ority other than th	ary Examining his one to be the	g Authority ("IPEA") ex	cept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66.1 bis (b) ered.
IPEA	a written reply to	ogether, where		ments, before the ex	PEA, the applicant is invited to submit to the spiration of 3 months from the date of mailing whichever expires later.
For fu	arther options, see	Form PCT/IS.	A/220.		
3. For fu	orther details, see	notes to Form	PCT/ISA/220.		
	mailing address		Date of comple	tion of this opinion	Authorized officer
	Mail Stop PCT, Attu Commissioner for Pa		04 January 200	6 (04.01.2006)	Mary E. Mosfler, Ph. D. T.
F A	P.O. Box 1450 Alexandria, Virginia	22313-1450		•	Telephone No. 571-272-1600
acsimile	No. (571) 273-320	<u> </u>			-

Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.

PCT/US04/36689

Box N	Box No. I Basis of this opinion		
	1. With regard to the language, this opinion has been established on the basis of:		
	the international application in the language in which it was filed		
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).		
	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:		
8.	type of material		
	a sequence listing		
	table(s) related to the sequence listing		
b.	format of material		
	on paper		
	in electronic form		
c.	time of filing/furnishing		
	contained in the international application as filed.		
•	filed together with the international application in electronic form.		
	furnished subsequently to this Authority for the purposes of search.		
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4. Additi	ional comments:		
	•		
	•		
Form PCT	/JSA/237(Box No. I) (April 2005)		

International application No.

PCT/US04/36689

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of: the carire international application claims Nos	Box No	. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
claims Nos. 5.61.63.65 and 67	1	
because: the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify): the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify): the claims, or said claims Nos. \$61.63.65 and 67 are so inadequately supported by the description that no meaningful opinion could be formed (specify): These claims require specific SEQ IDs, and no Sequence Listing was filed. no international search report has been established for said claims Nos a meaningful opinion could not be formed without the sequence listing, the applicant did not, within the prescribed time limit: furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13/er. 1(a) or (b). a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the preserbed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		the entire international application
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furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it. pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b). a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority
under Rules 13 <i>ter</i> .1(a) or (b). a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.		furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching
not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it. the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.		
with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.		not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available
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Form PCT/ISA/237 (Box No. III) (April 2005)

International application, Nc
PCT/US04/36589

Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4. Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-4 and 18-23

Form PCT/ISA/237 (Box No. IV) (April 2005)

International application No PCT/US04/36464

Box No.	Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Staten	nent		
	Novelty (N)	Claims <u>18-23</u>	_YES
		Claims 1-4	_NO
	Inventive step (IS)	Claims 18-23	_YES
		Claims 1-4	_NO
	Industrial applicability (IA)	Claims 1-4, 18-23	YES
		Claims NONE	NO

2. Citations and explanations:

Claims 1-2 lack novelty under PCT Article 33(2) as being anticipated by Thiel et al (Journal of General Virology 84:2305-2315, available 19 June 2003) or Snijder et al (Journal of Molecular Biology 331:991-1004, 20 August 2003). Figure 1d of Thiel shows PCR amplification of a subgenomic RNA comprising a leader sequence, and detection of the amplified product by sequence analysis. Figure 3B of Snijder shows detection of subgenomic RNAs with leader sequences. These meet each and every limitation of the claims.

Claims 1-4 lack novelty under PCT Article 33(2) as being anticipated by Yount et al (PNAS 100:12995-1300, available online October 20, 2003). See page 12998, first paragraph of column 2 for detection of a leader sequence; page 12998, last paragraph of column 1 for detection of genomic RNA; Figure 2B for detection of polypeptide; and the passage spanning pages 12997-12998 for detection of virus.

Claims 18-23 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest cells that support replication of SARS coronavirus in the absence of substantial cytopathic effect, or the use of those cells in a process involving detecting SARS genomic or subgenomic RNA.

Claims 1-4 and 18-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No

PCT/US04/36685

Box No.	VII	Certain defects in the international application
DUX INU.	V III	Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claims 1, 18 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: Claim 1, line 2 is missing the word "of". Claim 18 recites the abbreviation "pRHMK" without spelling out "primary rhesus monkey kidney" the first time the abbreviation is used in the claims.

Form PCT/ISA/237 (Box No. VII) (April 2005)

International amplication No.

PCT/US04_wox

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 1-4, 18-23 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim indefinite for the following reason(s): In claim 1, there is no step relating the "detecting" to the purpose set forth in the preamble. This affects dependent claims 2-4. In claim 2, is the intent to require the subgenomic RNA to comprise a portion of a leader sequence, or is the intent to require a PCR primer comprising a portion of a leader sequence? For claims 18-23 as written, the purpose of the assay is not apparent, why detect virus from two samples? What useful information is gained by determining that patient Smith's sample has more subgenomic RNA than patient Doe's sample, or that the Smith and Doe samples make different ratios of subgenomic/genomic RNAs? Are claims 18-23 actually meant to involve comparing the results of different treatments for one (divided) virus sample? Claim 19 is confusing, because it requires detecting an absence of subgenomic RNA while the parent claim requires the opposite, detecting the presence of subgenomic RNA.

Claim 23 is objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claim not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: It is apparent that cell lines HEK-293T, Huh-7, and Mv1Lu are required to practice the claimed invention, because these are specifically recited in the claims. The specification does not provide a repeatable method for obtaining these specific cell lines, and they do not appear to be readily available material.

Form PCT/ISA/237 (Box No. VIII) (April 2005)